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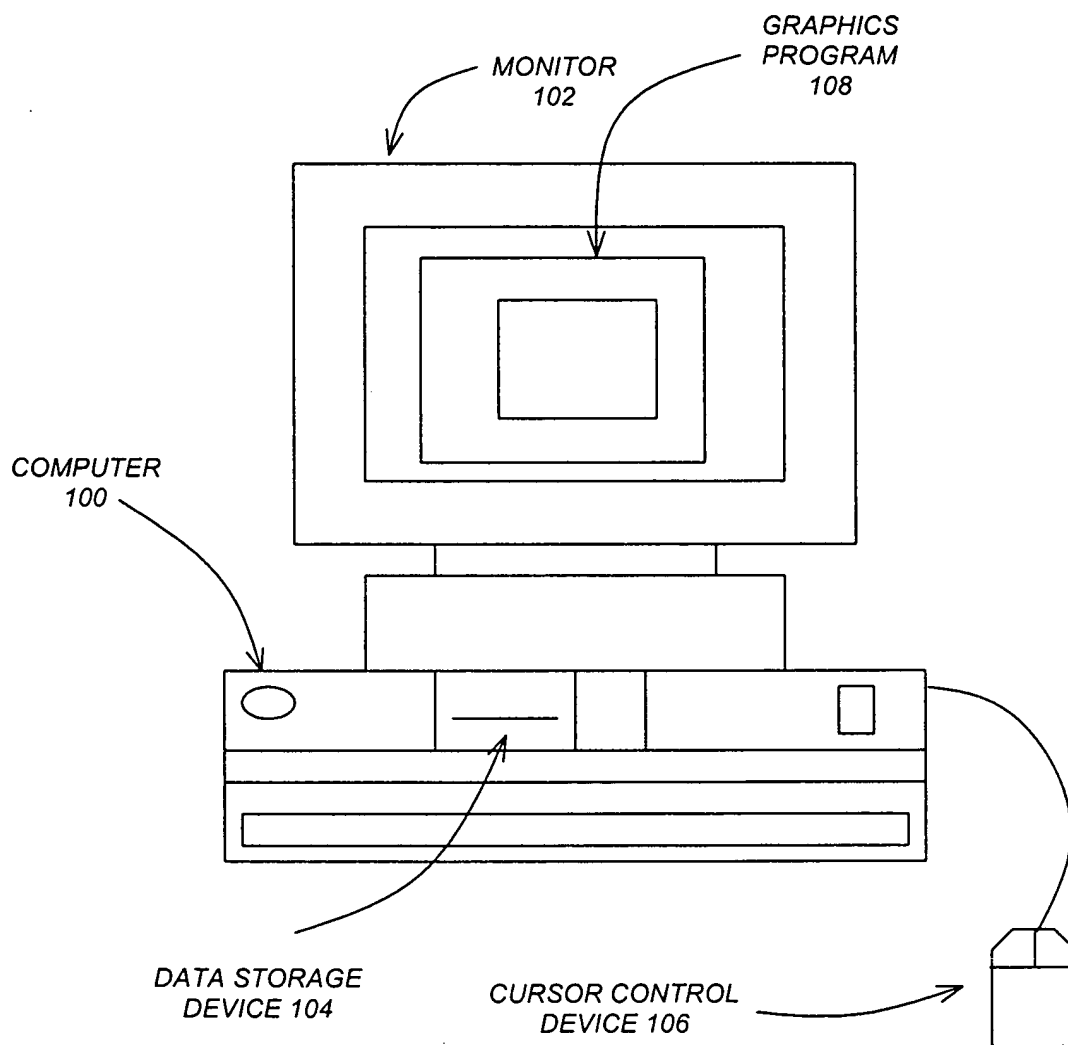


FIG. 1

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graph TD; A[GRAPHICAL USER INTERFACE 200] --- B[IMAGE ENGINE 202]; B --- C[DATABASE 204]; C --- D[(DWG FILES 206)]; subgraph C [DATABASE 204]; E[2D DATABASE 210]; F[3D DATABASE 208]; end
```

The diagram illustrates the architecture of the Graphics Program 108. It consists of the following components and their interconnections:

- GRAPHICAL USER INTERFACE 200**: The top-level component that interacts with the user.
- IMAGE ENGINE 202**: Receives input from the GUI and processes it to generate images.
- DATABASE 204**: A central data storage component that manages the 2D and 3D data.
  - 2D DATABASE 210**: A sub-database within the main database, specifically for 2D data.
  - 3D DATABASE 208**: A sub-database within the main database, specifically for 3D data.
- DWG FILES 206**: A storage component for drawing files, represented by a cylinder icon, which is connected to the main database.

The flow of data is as follows: The **GRAPHICAL USER INTERFACE 200** sends data to the **IMAGE ENGINE 202**. The **IMAGE ENGINE 202** then interacts with the **DATABASE 204**. The **DATABASE 204** is further divided into the **2D DATABASE 210** and the **3D DATABASE 208**. Finally, the **DATABASE 204** is connected to the **DWG FILES 206** storage.

FIG. 2

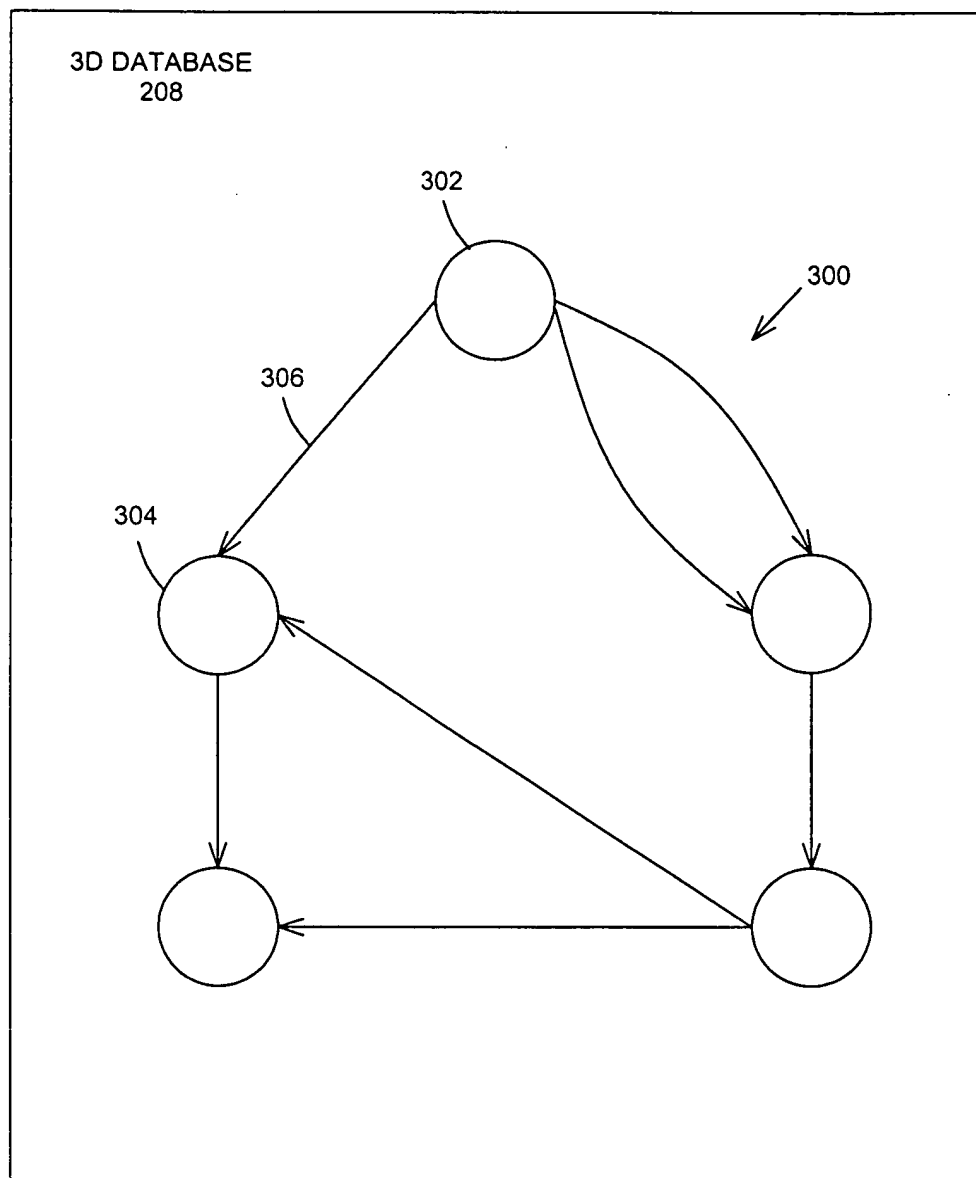


FIG. 3

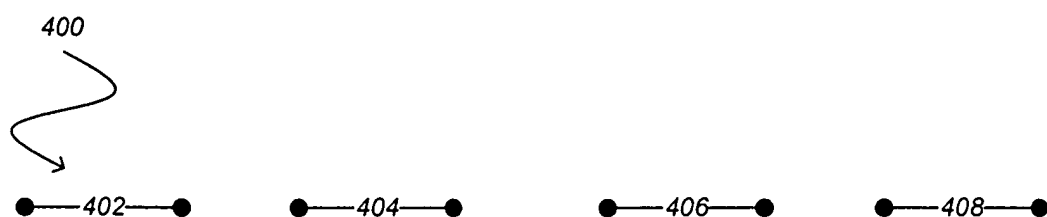


FIG. 4A

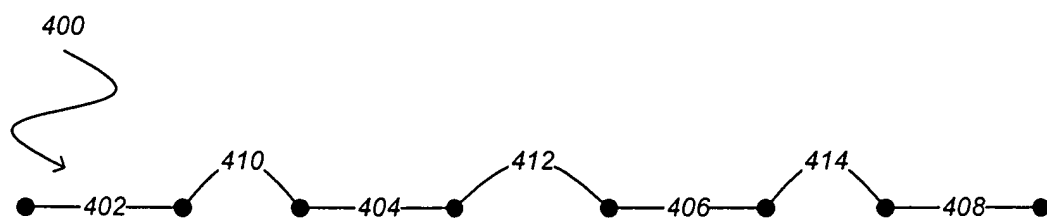


FIG. 4B

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graph TD; 500{WAIT FOR EVENT} --> 502[IDENTIFY EVENT]; 502 --> 504[IDENTIFY CURRENT STATE]; 504 --> 506[DETERMINE NEW STATE]; 506 --> 508[TRANSITION TO NEW STATE AND PERFORM ACTIONS]; 508 --> 510[SET CURRENT STATE TO NEW STATE]; 510 --> 500;
```

The flowchart illustrates a state transition process. It begins with a decision diamond labeled "WAIT FOR EVENT" (500). An arrow points down to a rectangular process block labeled "IDENTIFY EVENT" (502). From there, an arrow points down to another rectangular process block labeled "IDENTIFY CURRENT STATE" (504). This is followed by a rectangular process block labeled "DETERMINE NEW STATE" (506). The next step is a rectangular process block labeled "TRANSITION TO NEW STATE AND PERFORM ACTIONS" (508). Finally, a rectangular process block labeled "SET CURRENT STATE TO NEW STATE" (510) leads back to the "WAIT FOR EVENT" (500) diamond, completing the loop.

FIG. 5

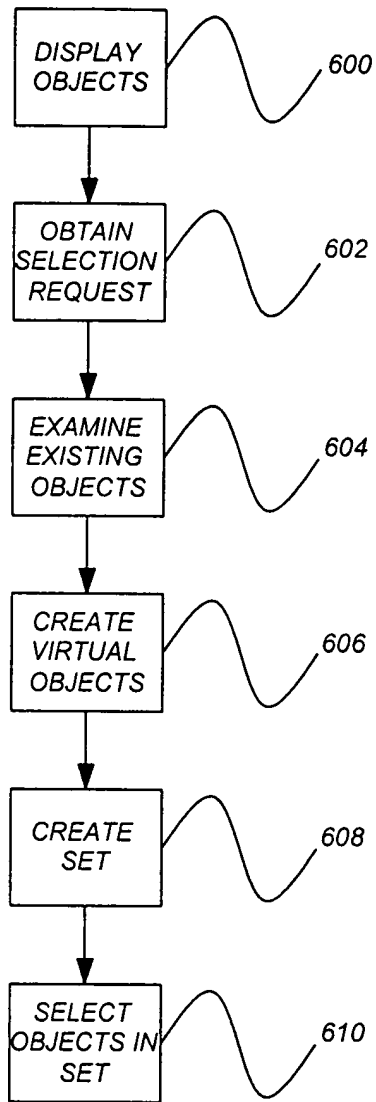


FIG. 6